

Three-dimensional sound processing system

Patent number: EP0827361
Publication date: 1998-03-04
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Classification:
- international: H04S1/00
- european: H04S1/00D
Application number: EP19970103428 19970303
Priority number(s): JP19960227933 19960829

Also published as:

US5946400 (A1)
JP10070796 (A)

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Abstract of EP0827361

A three-dimensional sound processing system which provides a listener with three-dimensional sound effects by reproducing a sound image properly positioned in a reproduced sound field. A filter coefficient enhancement unit creates two difference-enhanced impulse responses by emphasizing the difference between two sets of acoustic characteristics pertaining to a listener's both ears, which are represented as impulse responses measured in an original sound field. Based on the two difference-enhanced impulse responses, a series of coefficients of a sound image positioning filter are determined for every possible location of the sound source. A coefficient memory unit stores various sets of such filter coefficients separately for each sound source location. The sound image positioning filter configures itself with the series of filter coefficients retrieved from the coefficient memory unit according to a given sound source location, and adds the acoustic characteristics of the original sound field to a source sound signal. The sound image positioning filter also subtracts in advance the acoustic characteristics of the reproduced sound field from the source sound signal, using a separate set of coefficients representing inverse characteristics of the reproduced sound field.

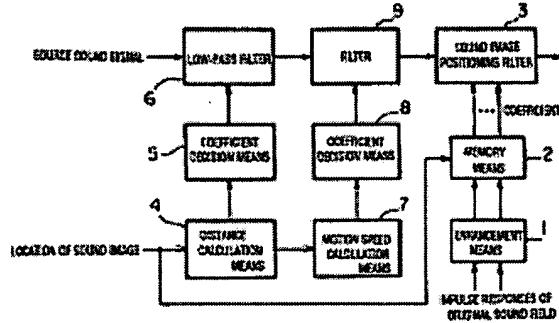


FIG. 1

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